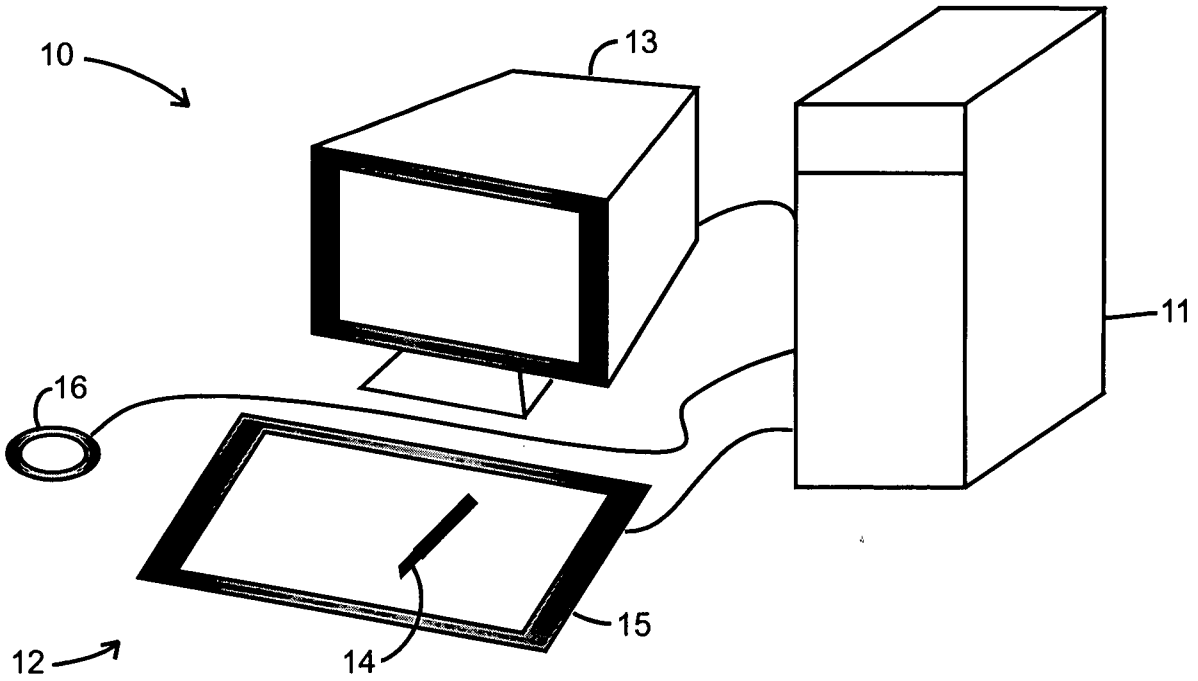
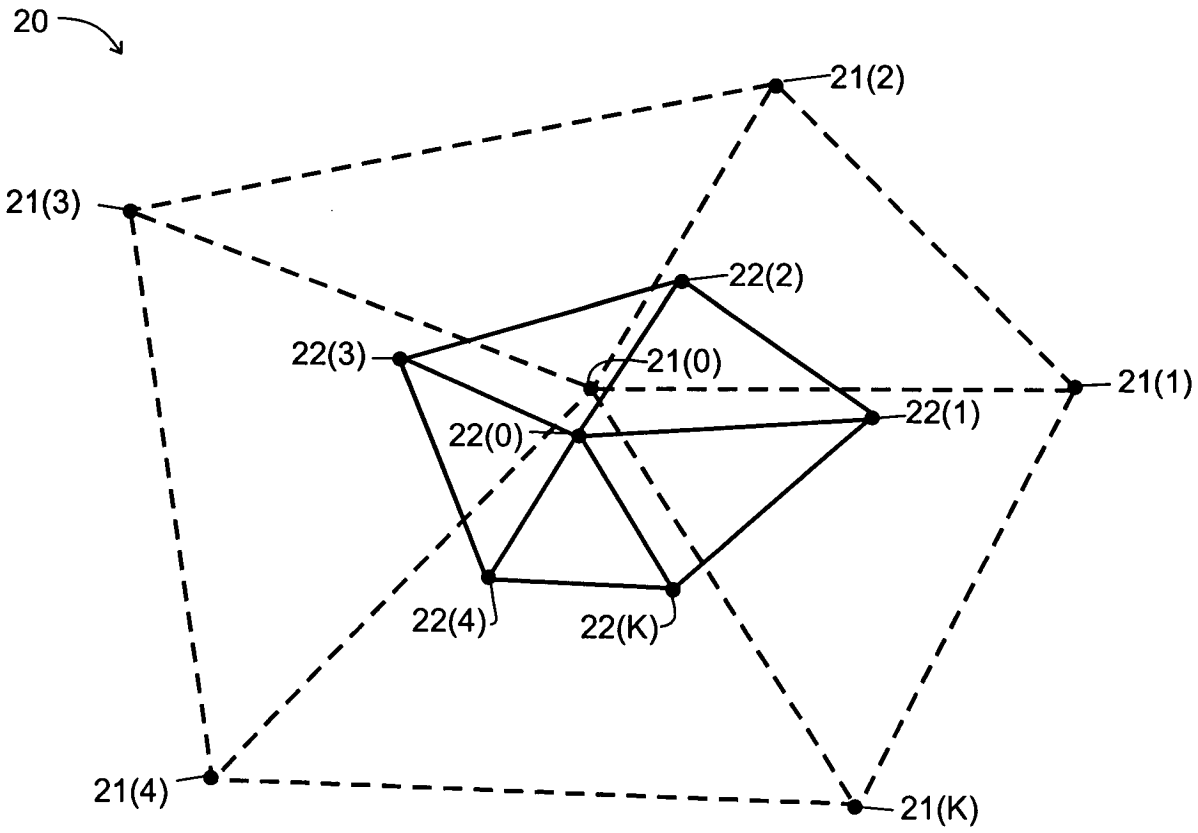
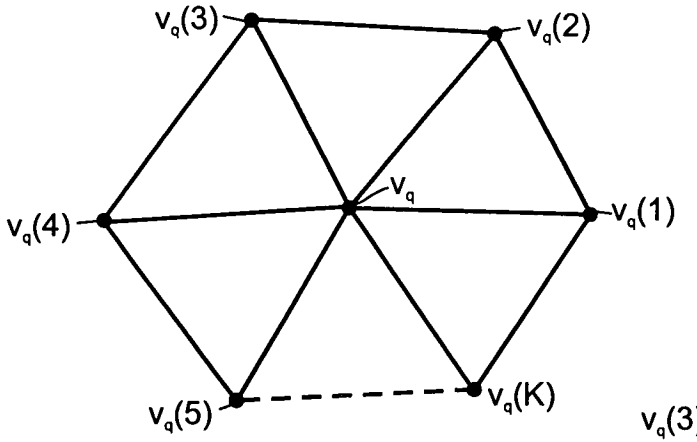


FIG. 1

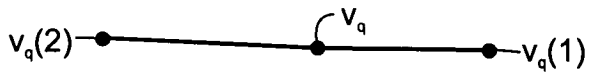
F I G. 2



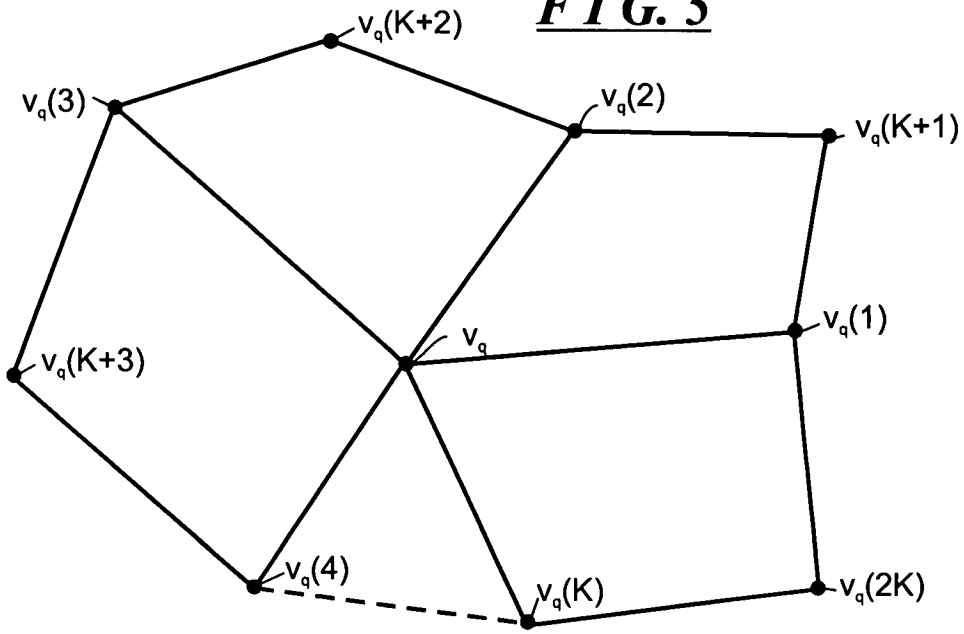
F I G. 3



F I G. 6



F I G. 5



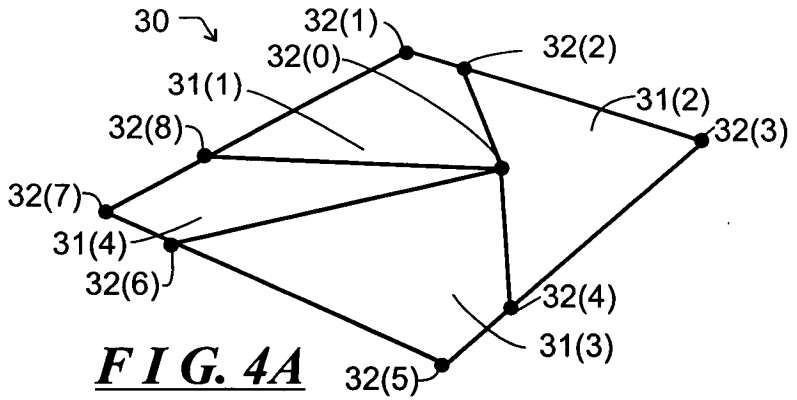


FIG. 4A

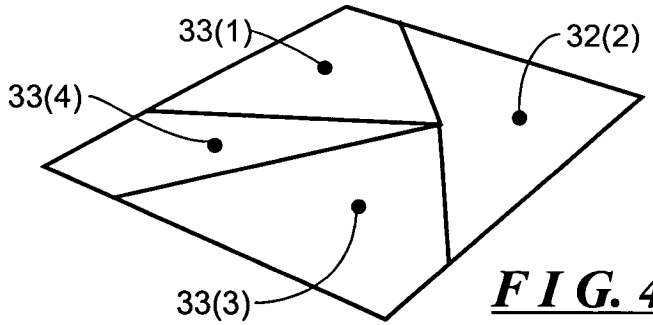


FIG. 4B

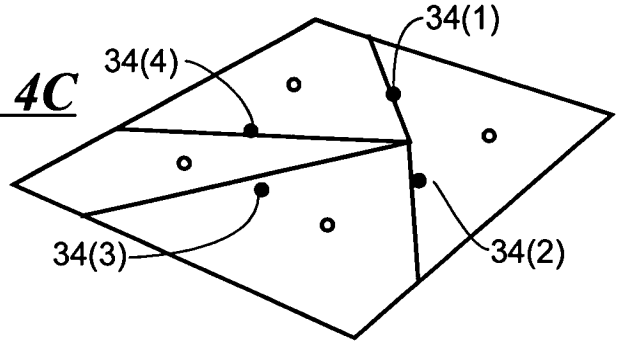


FIG. 4C

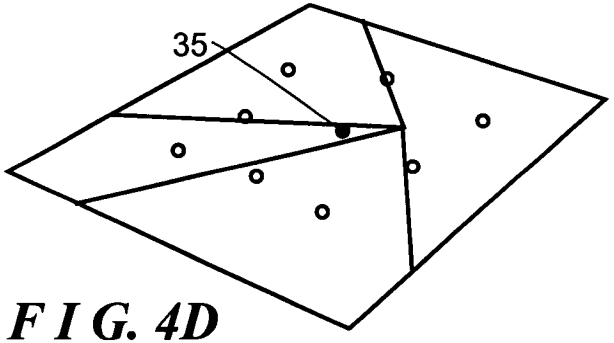


FIG. 4D

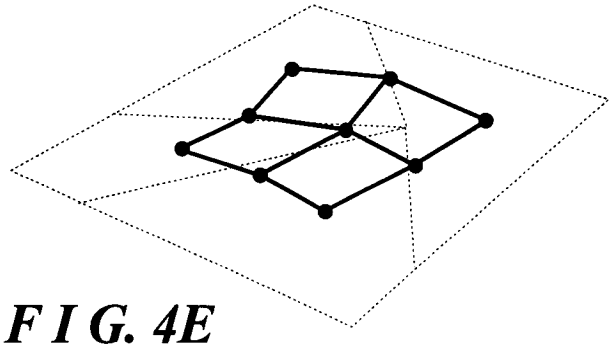
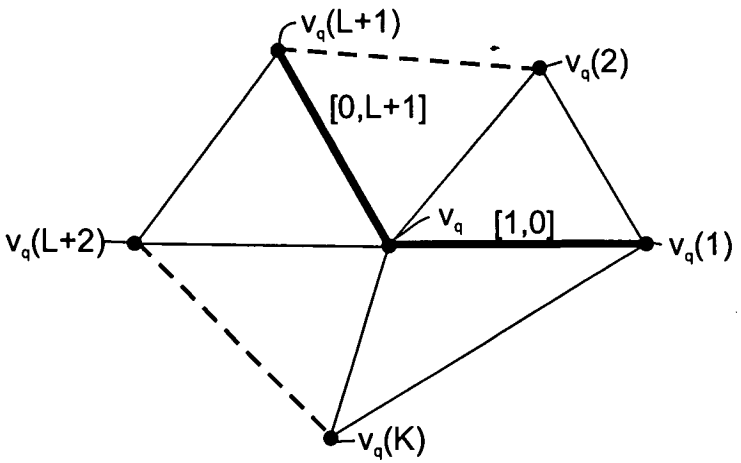
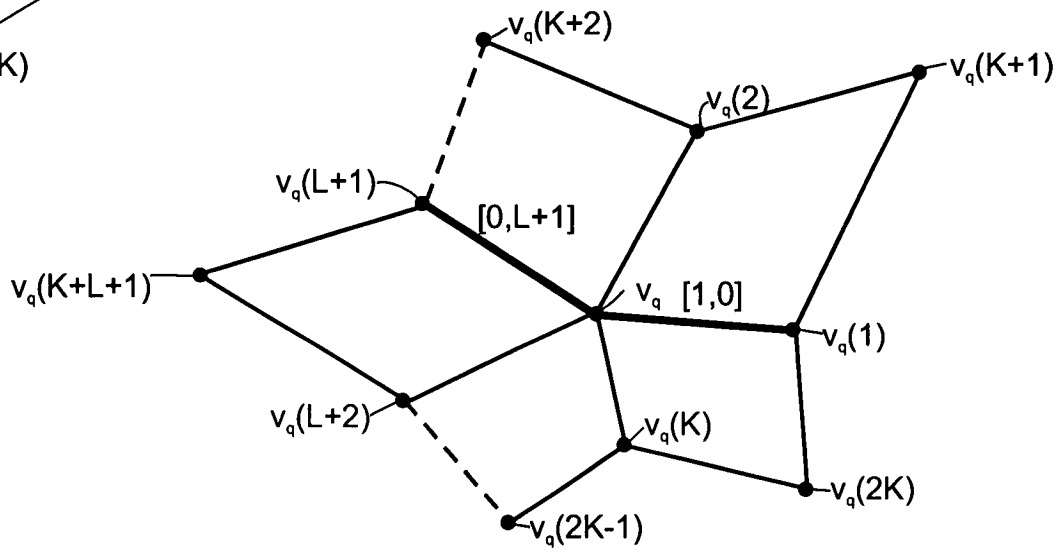


FIG. 4E

F I G. 7



F I G. 11



```
{{{0.443421,  0.0305333,    0.0443492,    0.063879},
{0.141259,    0.000136599,  0.0148707,    -0.00109843,  0.0076581,    0.00346819},
{0.137049,    -0.0228996,   -0.0252566,   -0.0355625}},

{{0.507082,   0.00548929,   0.0401558,    0.0564534},
{0.0868566,   -0.0011115,   0.00665411,   0.0170916,    0.0230283,    0.0282183},
{0.0798101,   0.0011115,    -0.00665411,  -0.0170916,   -0.0230283,   -0.02821831}},

{{0.546139,   -0.00876865,  0.0367544,    0.0515309},
{0.0624505,   0.0000190515, 0.00420011,   0.0235243,    0.0299978,    0.0374255},
{0.0549644,   0.00100817,   -0.00262778,  -0.0103025,   -0.018209,    -0.0199813},
{0.0545996,   0.00385665,   -0.0167627,   -0.02287961},

{{0.569384,   -0.0174006,   0.0347388,    0.0488958},
{0.0492081,   0.00137333,   0.00352836,   0.0265662,    0.0335014,    0.04176},
{0.041625,    0.000915469,  -0.00067263,  -0.00692784,  -0.0452469,   -0.0156944},
{0.041455,    0.00276316,   0.00319311,   -0.0121777,   -0.0131791,   -0.0172232}},

{{0 .583819,  -0.0229457,   0.033557,     0.0474568},
{0.0410612,   0.00233865,   0.00324378,   0.0283714,    0.0356025,    0.0443077},
{0.0334219,   0.000972271,  0.00061938,   -0.00491482,  -0.0134267,   -0.0132165},
{0 .0334221,  0.00206077,   0.00252556,   -0.00965791,  -0.0106496,   -0.0137397},
{0 .0334038,  0.00242508,   -0.0101821,   -0.0137964}},

{{0.593245,   -0.0267059,   0.0328437,    0.0466408},
{0.0355851,   0.00297761,   0.00304271,   0.0295939,    0.0370233,    0.046002},
{0 .0279003,  0.00104983,   0.00153165,   -0.00357477,  -0.0122096,   -0.0116001},
{0 .0280143,  0.00165583.0.00211342,      -0.00801975,  -0.00895655,  -0.011451},
{0 .028013,   0.0019267,    0.00196427,   -0.00846173,  -0.00851908,  -0.01147851},

{{0 .599687,  -0.0293753,   0.0323998,    0.0461601},
{0 .0316607,  0.003399,     0.00286238,   0.030491,     0.0380604,    0.0472708},
{0.0239354,   0.00112319,   0.0022051,    -0.00262133,  -0.0113374,   -0.0104596},
(0 .0241309,  0.00138912,   0.00184042,   -0.00685571,  -0.00775225,  -0.0098265},
{0 .0241418,  0.00160907,   0.00164503,   -0.0072665,   -0.00732092,  -0.00984525},
(0.024 1408,  0.00163116,   -0.00729284,  -0.00984683}}}
```

FIG. 8

```
{{{-0.301785, 0.174949,    -0.133614,   -0.209551},
{0.705044,   -0.125369,    0.125961,    -0.00701645,  0.0422859,
-0.0432493,  -0.0578848,   0.00208289,  0.11396,      -0.0510825},
{0.276585,   -0.106806,    0.0710183,   0.162541}},

{{-0.22302,  0.191801,     -0.17859,    -0.132583},
{0.576045,   -0.0351631,   0.184874,    0.102395,     -0.0266634,
-0.0776289,  -0.128676,    -0.032089,   0.10653,      0.0390144},
{0.293717,   -0.00509685,  -0.229814,   -0.0381521,  0.095394,
0.18197,     0.0278911,    -0.00152759, -0.138467,    -0.176618}},

{{0.194666,  0.22213,      -0.206238,   -0.0888663},
{0.497563,   -0.0098554,   0.17913,     0.089555,     -0.0385274.
-0412269,    -0.0936961,   -0.00532702, 0.109533,     0.0888449},
{0.364945,   -0.108665,    -0.261022,   0194226,      0.309506,
0.347327,    -0.109823,    -0466012,    -0.254932,   -0.266218},
{0.0249163,  -0.0652217,   0.0561124,   0.0302425}},

{{-0.155005, 0.171102,     -0.163234,   -0.0674223},
{0.42234,    0.00621144,   0.154979,    0.0459924,   -0.0651407,
-0.109828,   -0.0522684,   0.0231508,   0.113788,    0.0911789},
{0.434147,   -0.0824354,   -0.201508,   0.16284,     0.241594,    0.26683,
-0.091361,   -0.130981,    -0.19205,    -0.204451},
{0.264696,   -0.00318438,  -0.0209969,  0.00771203,  0.0489318,
0.0612083,   -0.0066327,   -0.0186443,  -0.0486152,  -0.0532146}},

{{-0.138635, 0.149761,     -0.144616,   -0.0583901},
{0.388516,   0.0502042,    0.17695,     -0.0367233,  -0.145073,
-0.189469,   -0.00768783,  0.0782015,   0.14955,     0.142332},
{0.401914,   -0.0679866,   -0.178113,   0.134779,    0.201924,
0.234623,    -0.0727325,   -0.10786,    -0.160807,   -0.179405},
{0.292433,   -0.0313445,   -0.0445371,  0.0666588,   0.100615,
0.119528,    -0.0377854,   -0.0494528,  -0.0736189,  -0.0872955},
{0.00306035, -0.0101548,   0.00637489,  0.00427581}}}
```

FIG. 9

FIG. 10

100. INITIALIZE THE SUBDIVISION MATRICES S_{sc,T,K,L}(S_{1}(J),S_{2}(J)), J=0,1,2 AS DESCRIBED IN CONNECTION WITH EQUATION (19)

↓

101. GENERATE THE MATRIX PRODUCTS S_{sc,T,K,L,LP}(J)(S_{1},S_{2}) FOR J=2,3; FOR J=1, S_{sc,T,K,L,LP}(1)(S_{1},S_{2})=S_{sc,T,K,L}(S_{1},S_{2}), AND FOR J=0, S_SC,T,K,L,LP}(0)(S_{1},S_{2}) IS THE "K+1"-BY-"K+1" IDENTITY MATRIX I_{K+1}

↓

102. USE THE FIRST ROW OF EACH MATRIX PRODUCT S_{sc,T,K,L,LP}(J)(S_{1},S_{2}), J=0, 1, 2, 3, TO GENERATE COMPONENT-WISE AN APPROXIMATION TO LIMIT POINT WEIGHT VECTOR l_{LP} IN ACCORDANCE WITH THE EXTRAPOLATION FORMULA IN EQUATION (41)

↓

103. USE THE MATRIX PRODUCTS S_{sc,T,K,L,LP}(J)(S_{1},S_{2}), DILATION FACTOR d(K) AND VECTORS v_{C} AND v_{S} TO GENERATE THE VECTORS l_{C}(J) AND l_{S}(J), J=1, 2, AND 3 AS DESCRIBED IN CONNECTION WITH EQUATION (43); FOR J=0, THE RESPECTIVE TANGENT VECTOR WEIGHT VECTORS ARE l_{C}(0)=v_{C} AND l_{S}(0)=v_{S}

↓

104. USE VECTORS l_{C}(J) AND l_{S}(J) TO GENERATE APPROXIMATIONS TO THE TANGENT VECTOR WEIGHT VECTORS l_{C} AND l_{S} IN ACCORDANCE WITH EQUATION (46)

↓

105. USE THE LIMIT POINT WEIGHT VECTOR l_{LP} AND TANGENT VECTOR WEIGHT VECTORS l_{C} AND l_{S}, ALONG WITH THE POSITIONS OF THE VERTEX v_{q}(0) AND NEIGHBORING POINTS v_{q}(1) THROUGH v_{q}(K) TO GENERATE THE LIMIT POINT AND TANGENT VECTORS AS DESCRIBED IN CONNECTION WITH EQUATIONS (30) AND (37), RESPECTIVELY; THE NORMAL VECTOR CAN ALSO BE GENERATED AS THE CROSS PRODUCT BETWEEN THE TANGENT VECTORS

```
{{0.453887,  0.00731802,  0.05353.     0.0752922},
{0.11.3455,  -000404127,  0.00775988,  0.0109619,  0.0185743,  0.0160113},
{0.10639,    -0.00365901, -0.026765,   -0.0376461},
{0.113452,   0.00775988,  -0.00404127, 0.0160113,  0.0185743,  0.01096191}
```

FIG. 12

```
{{-2.05162,  3.04791,    -2.76216,   -0.993681},
{395871,     0.244816,   1.63404,    -0.196152,  -0.99494,
-1.46708,    -0.0446372, 0.421901,   1.08452,    1.28361},
{1.02581,    -1.52396,   1.38108,    0.49684},
{-3.95871,   -1.63404,   -0.244816,  1.46708,    0.99494,
0.196152,    -1.28361,   -1.08452,   -0.421901,  0.0446372}}
```

FIG. 13